

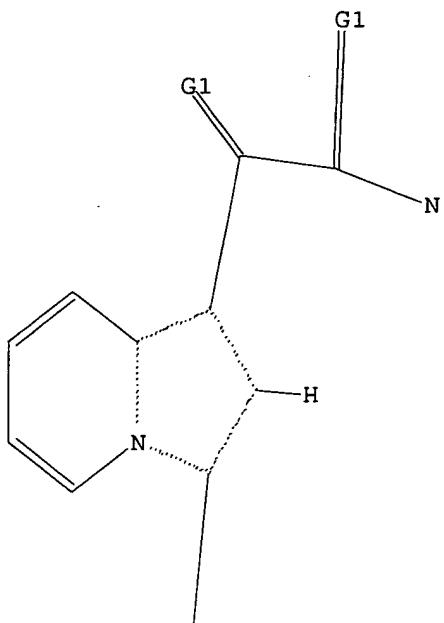
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Uploading C:\Program Files\Stnexp\Queries\rkc978.str
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L1      STRUCTURE UPLOADED
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=> d
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L1 HAS NO ANSWERS
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L1      STR
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G1 O,S,N
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Structure attributes must be viewed using STN Express query preparation.
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=> s 11 ful
FULL SEARCH INITIATED 16:42:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      530 TO ITERATE
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100.0% PROCESSED      530 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
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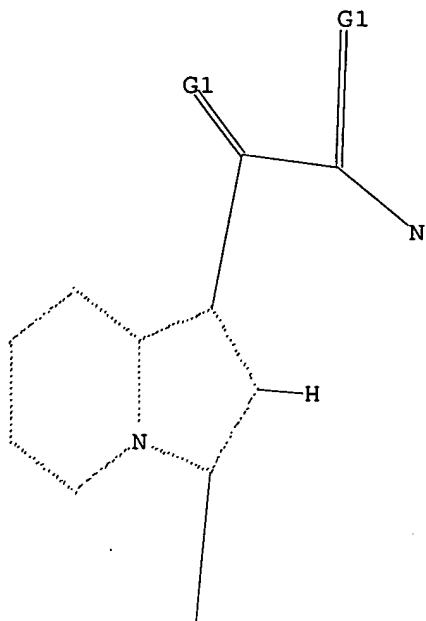
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L3      STRUCTURE UPLOADED
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=> d
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L3 HAS NO ANSWERS
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L3      STR
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G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 13
 SAMPLE SEARCH INITIATED 16:44:40 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED 18 ITERATIONS 3 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 106 TO 614
 PROJECTED ANSWERS: 3 TO 163

L4 3 SEA SSS SAM L3

=> s 13 ful
 FULL SEARCH INITIATED 16:44:47 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 530 TO ITERATE

100.0% PROCESSED 530 ITERATIONS 75 ANSWERS
 SEARCH TIME: 00.00.01

L5 75 SEA SSS FUL L3

=> fil caplus
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 FULL ESTIMATED COST 323.95 324.16

FILE 'CAPLUS' ENTERED AT 16:44:54 ON 07 JUL 2005
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FILE COVERS 1907 - 7 Jul 2005 VOL 143 ISS 2
FILE LAST UPDATED: 6 Jul 2005 (20050706/ED)

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=> s 15
L6          4 L5

=> d 1-4 fbib abd fhitstr
'ABD' IS NOT A VALID FORMAT FOR FILE 'CPLUS'
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The following are valid formats:

```
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
           SCAN must be entered on the same line as the DISPLAY,
           e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
           containing hit terms
HITRN ----- HIT RN and its text modification
```

HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):fbib abs fhitstr

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:490446 CAPLUS
 DN 141:54191
 TI Preparation of α -oxo-1-indolizineacetamides as tumor necrosis factor (TNF α) inhibitors for the treatment of inflammatory disorders.
 IN Ono, Mitsunori; Sun, Lijun; Xia, Zhi Qiang; Li, Hao; Chen, Shojun; Nagai, Masazumi; Lu, Rongzhen
 PA USA
 SO U.S. Pat. Appl. Publ., 17 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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			US 2002-244088	A2 20020913
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WO 2004054507	A2	20040701	WO 2003-US39303	20031210
WO 2004054507	A3	20050210		
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			US 2003-388332	A2 20030313

PATENT FAMILY INFORMATION:

FAN 2003:221687

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CA 2459886	AA	20030320	US 2001-322020P	P 20010913
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BR 2002012794	A	20041005	BR 2002-12794	20020913
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			WO 2002-US29154	W 20020913
JP 2005504795	T2	20050217	JP 2003-526921	20020913
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FAN 2003:855698

PATENT NO.

KIND

DATE

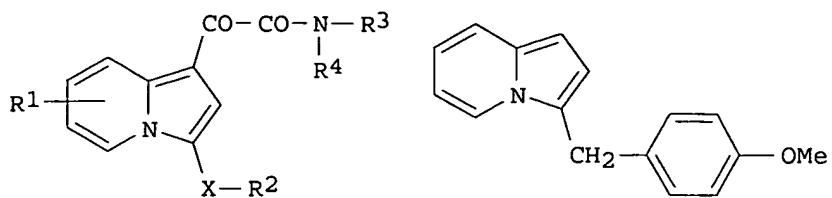
APPLICATION NO.

DATE

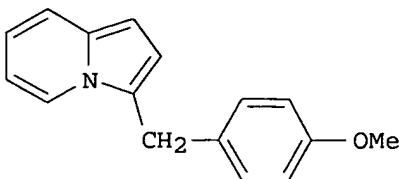
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<i>Opplicant</i>	US 2003153759	A1	20030814	US 2002-244088	20020913
	US 6861436	B2	20050301		
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				US 2003-388332	A2 20030313
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OS MARPAT 141:54191

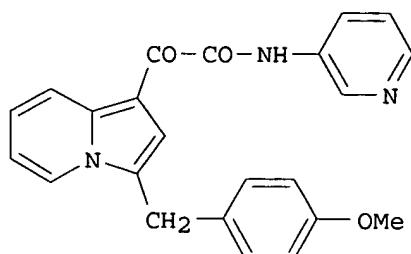
GI



I



II



III

AB Title compds. I [R₁ = H, alkyl, alkoxy, etc.; (un)substituted alkoxy, OH, CN, etc.; R₃ = H, alkyl; R₄ = N-oxy pyridyl, substituted pyridyl, e.g., F, Cl, Br, etc.; X = CR'', NR', O, etc.; R', R'' = H, substituted alkyloxy, e.g., OH, CN, F, etc.] and their pharmaceutically acceptable salts were prepared. For example, oxalyl chloride acylation of indolizine II, e.g., prepared from 2-methylpyridine in 3-steps, followed by the addition of 3-aminopyridine afforded indolizine III. In human TNF α inhibition assays, 32-examples of compds. I exhibited IC₅₀ values < 5 μ M and 5-examples showed IC₅₀ values of 10 nM or lower. Compds. I are claimed useful for the treatment of inflammatory disorders.

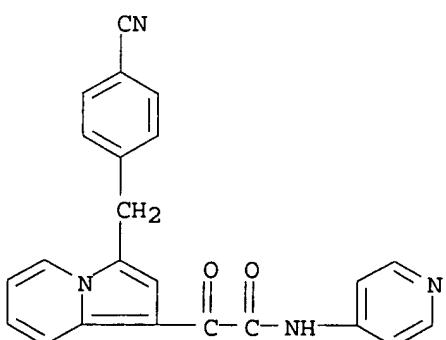
IT 501948-23-8P, 2-[3-(4-Cyanobenzyl)indolizin-1-yl]-2-oxo-N-pyridin-4-ylacetamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of α -oxo-1-indolizineacetamides as PDE4 inhibitors for the treatment of inflammatory disorders.)

RN 501948-23-8 CAPLUS

CN 1-Indolizineacetamide, 3-[(4-cyanophenyl)methyl]- α -oxo-N-4-pyridinyl- (9CI) (CA INDEX NAME)



TI Synthesis of 3-acylindolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with sterically hindered reagents, and their use as intermediates in the preparation of 1-glyoxylamide indolizines
IN Sun, Lijun; Koya, Keizo; Xia, Zhi-qiang; Przewloka, Teresa; Zhang, Shijie; Ono, Mitsunori

PA Synta Pharmaceuticals Corp USA

PA Synta Pharmaceuticals
SO BCT Int. Appl. 36 pp

50 PCI Inc. Appl
CODEN: BIXXD2

CODEN: DT Patent

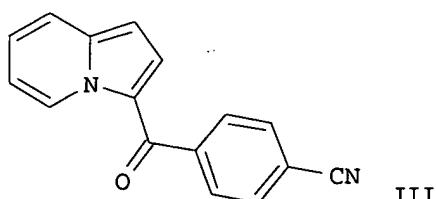
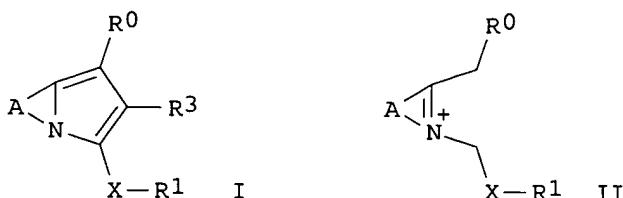
DI
LA

HA Eng 1
EAN CNT 1

FAN.CNT 1

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PI	WO 2004024727	A2	20040325	WO 2003-US28252	20030910
	WO 2004024727	A3	20040603		
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CA 2496764	AA	20040325	US 2002-410679P	P	20020913
CA 2496764			CA 2003-2496764		20030910
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EP 1537105	A2	20050608	EP 2003-749545		20030910
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			US 2002-410679P	P	20020913
			WO 2003-US28252	W	20030910
US 2004152897	A1	20040805	US 2003-660358		20030911
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OS MARPAT 140:287263
GI



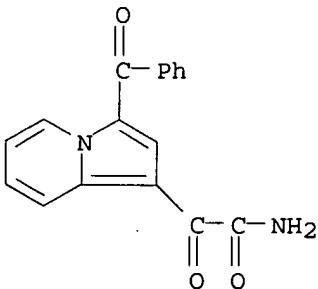
AB The invention is related to a method for preparing 3-acylindolizines I by reacting a substrate II with either the cyclization reagent R3C(OR₂)₂N(R₄)₂ or, a reagent prepared by reaction of R3C(:O)N(R₄)₂ with an alkylating agent [A = (un)substituted aryl; X = covalent bond, or C(:O), S(:O), SO₂, NH and derivs., (un)substituted methylene; R₀ = H, halo, CN, CO₂H and derivs., C(:O)H and derivs., CONH₂ and derivs., SO₂H and derivs., SO₂NH₂ and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R₁ = H, CN, OH and derivs., SH and derivs., NH₂ and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R₂ = independently (un)substituted aliphatic, aryl, or both R₂ = linking group; R₃ = H, (un)substituted aryl; or an electron-withdrawing, or electron-donating group provided that if R₃ = H, at least one R₂ = secondary or tertiary alkyl, (un)substituted aryl; R₄ = independently H, (un)substituted aliphatic, aryl; or R₄N₂ = (un)substituted heterocyclyl]. The advantages include high yields in the 3-acylindolizine, absence of 2-acylindolizine byproduct, and an environmental-friendly process. The invention is also directed to the use of I in the preparation of pharmacol. active 1-glyoxylamide indolizines III by further acylation of I with oxalyl chloride or a synthetic equivalent, and reaction with amines [B = (un)substituted ring or fused to an aryl group; R₅, R₆ = independently H, (un)substituted aliphatic, non-aromatic heterocyclyl, aryl, provided that R₅ or R₆ are not both H, or NR₅R₆ = (un)substituted non-aromatic heterocyclyl, aryl; R₁, R₂, X defined as above]. For example, 4-[(Indolizin-3-yl)carbonyl]benzonitrile was prepared by cyclization of IV-Br- with N,N-dimethylformamide di-tert-butylacetal in DMF.

IT 675139-41-0DP, derivs.

RL: PNU (Preparation, unclassified); PREP (Preparation)
(1-glyoxylamide indolizine; synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)

RN 675139-41-0 CAPLUS

CN 1-Indolizineacetamide, 3-benzoyl- α -oxo- (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:855698 CAPLUS

DN 139:350631

TI Preparation of indolizine compounds for treating conditions involving PDE4 or elevated levels of cytokines

IN Ono, Mitsunori; Przewloka, Teresa; James, David; Chimmanamada, Dinesh; Lu, Rongzhen; Nagai, Masazumi; Koya, Keizo; Sun, Lijun

PA USA

SO U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 319,401.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

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US 6861436	B2	20050301	US 2002-244088	A2 20020913
			US 2002-319401	A2 20021212
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US 2004116462	A1	20040617	US 2001-322020P	P 20010913
WO 2004054507	A2	20040701	US 2002-319401	20021212
WO 2004054507	A3	20050210	WO 2003-US39303	20031210
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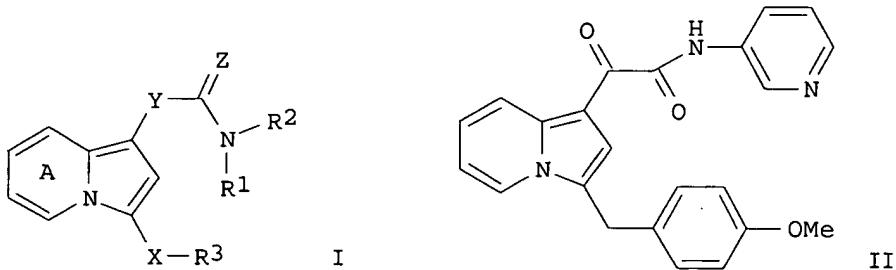
PATENT FAMILY INFORMATION:

FAN 2003:221687

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WO 2004054507	A2	20040701	WO 2003-US39303	20031210
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			US 2002-319401	A2 20021212
			US 2003-388332	A2 20030313

OS MARPAT 139:350631
GI



AB Title compds. I [wherein ring A = (un)substituted, optionally fused to an aryl group; Y = C(R4R5), NR4, CO, CS, amide, etc.; Z = O, S, NOR12, NR12; R1, R2 = H, (un)aliphatic, heterocycle, aryl, heteroaryl; R3 = aryl, aliphatic; X = bond, C(R4R5), NR4, O, S, CO, etc.; R4R5 = H, aliphatic; R12 = H, alkyl], a pharmaceutically acceptable salt or prodrug thereof, were prepared for treating and preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines. Thus, indolizine derivative II was prepared via a multistep synthetic sequence starting from 2-picoline, 2-bromo-1-(4-methoxy-phenyl)-ethanone, oxalyl chloride and 3-aminopyridine. II showed inhibition of human TNF α (IC₅₀ = < 10 μ M) and inhibition of PDE4 (IC₅₀ = < 5 μ M).

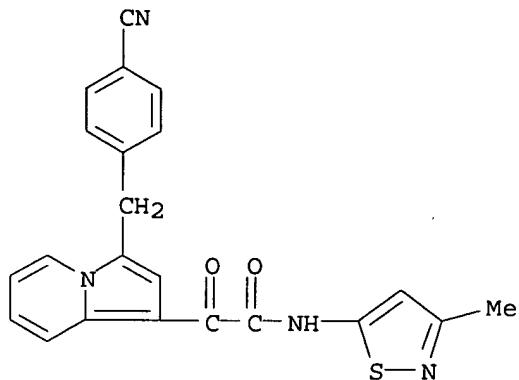
IT 501948-05-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses).

(preparation), RACI (Reactant or reagent), USES (uses) (preparation of indolizine compds. for treating or preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines)

RN 501948-05-6 CAPLUS

CN 1-Indolizineacetamide, 3-[(4-cyanophenyl)methyl]-N-(3-methyl-5-isothiazolyl)- α -oxo- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:221687 CAPLUS

DN 138:238174

TI Preparation of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer

IN Koya, Keizo; Sun, Lijun; Ono, Mitsunori; Ying, Weiwen; Li, Hao

PA SBR Pharmaceuticals Corp., USA

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

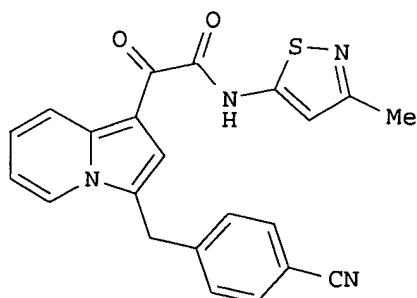
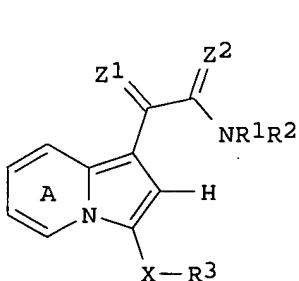
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BR	2002012794	A	20041005	BR 2002-12794 US 2001-322020P WO 2002-US29154	20020913 P 20010913 W 20020913
JP	2005504795	T2	20050217	JP 2003-526921 US 2001-322020P WO 2002-US29154	20020913 P 20010913 W 20020913

PATENT FAMILY INFORMATION:

FAN 2003:855698

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003204090	A1	20031030	US 2003-388332 US 2001-322020P	20030313 P 20010913

US 2003153759	A1	20030814	US 2002-244088	A2 20020913
US 6861436	B2	20050301	US 2002-319401	A2 20021212
			US 2002-244088	20020913
US 2004116462	A1	20040617	US 2001-322020P	P 20010913
WO 2004054507	A2	20040701	US 2002-319401	20021212
WO 2004054507	A3	20050210	WO 2003-US39303	20031210
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OS MARPAT 138:238174			US 2003-388332	A2 20030313
GI				



AB The title 1-glyoxylylamide indolizines [I; Ring A is (un)substituted and optionally fused to an aryl group; Z1, Z2 = O, S, N(OR12), NR12; R1, R2 = H, (un)substituted aliphatic group, (un)substituted non-aromatic heterocyclic group, etc.; or NR1R2 = (un)substituted non-aromatic nitrogen-containing heterocyclic group or nitrogen-containing heteroaryl group; R3 = (un)substituted aryl or aliphatic group; X = a bond, CR4R5, NR4, O, etc.; R4, R5 = H, (un)substituted aliphatic group; R12 = H, (un)substituted alkyl], useful in treating a multi-drug resistant cancer, were prepared E.g., multi-step synthesis of II, starting from 4-cyanophenacyl bromide and pyridine, was given. The compound II demonstrated significantly high anti-cancer activity (IC50: 0.01-0.05 μ M) against seven cancer cell lines from different tissue type, and also high anti-cancer activity (0.02-0.05 μ M) against two MDR cancer cell lines.

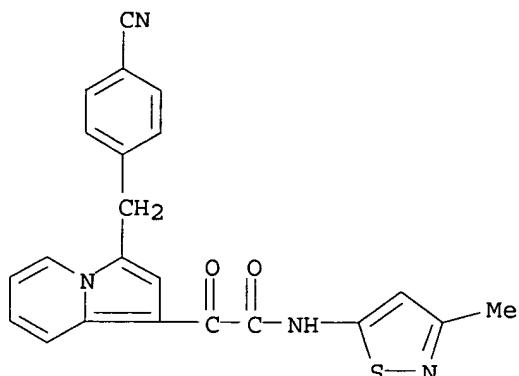
IT 501948-05-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer)

RN 501948-05-6 CAPLUS

CN 1-Indolizineacetamide, 3-[(4-cyanophenyl)methyl]-N-(3-methyl-5-isothiazolyl)- α -oxo- (9CI) (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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